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DESCRIPTORS	*Annotated Bibliographies; *Books; Elementary Secondary Education; Higher Education; *History; Instructional Materials; Mathematical Applications; *Mathematics Education; Mathematics Instruction; *Mathematics Materials; *Resource Materials; Supplementary Reading Materials; Teacher Education
IDENTIFIERS	*Mathematics History

ABSTRACT

Presented is a listing of books recommended by the Mathematical Association of the United Kingdom that deal with Mathematics History. The following information on each book is provided: author; title; publisher; cost to the nearest pound; categories of use; and a code that indicates if the book in question is out of print, reprinted, and/or highly recommended. Brief annotations are provided with many of the entries. (MP)

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BOOKLISTS

For the Teaching of Mathematics in Schools

HISTORY of MATHEMATICS

(REF: HIST)

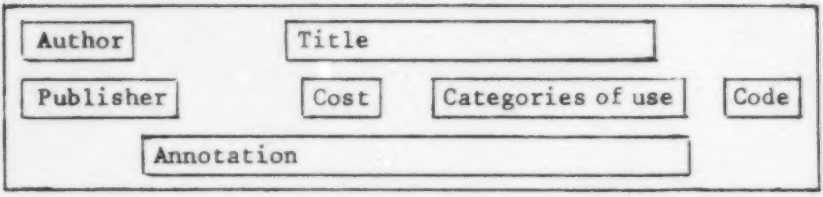
prepared by a sub-committee
of the Teaching Committee
of the
Mathematical Association

THE MATHEMATICAL ASSOCIATION

May 1980

SE 035 596

Information on each book is displayed in the following format:



Cost Given to the nearest £ above.

Code Symbols

- * Highly recommended.
- O Out of Print.
- R Reprinting.

Categories of use

- A Applications - to science, geography, economics.....
- B Background and reference books for teachers.
- C Content - mathematical topics (not above 1st year University level).
- E Mathematical Education - eg. for 'Diploma' students.
- J/K Primary school teachers (4-11 yrs)/and pupils.
- L/M Lower secondary school teachers (11-16)/and pupils.
- P/Q Practical and constructional work, books for teachers/pupils.
- T Teaching method.
- U/V Sixth-form teachers/and pupils.
- Z Puzzles, problems, games and recreational mathematics.

Details of lists available are shown outside back cover.

PREFACE

The lists have been prepared by a sub-committee of Teaching Committee, and edited by F.R. Watson. A data-processing program written by Dr. K.H. Bennett (University of Keele) was used to extract the sublists and print them alphabetically.

Very many people have contributed to the production of these lists, in a variety of ways. In particular, thanks are due to the staff of the Education Library and of the Computer Centre, University of Keele, and to the members of the sub-committee, and many others who supplied information and comments.

It is intended to up-date the lists at fairly frequent intervals. We cannot hope to have avoided all errors and your suggestions are invited; they will help to improve the lists.

Comments on the lists, or notification of errors and omissions will be welcomed. Please address correspondence to the Secretary, Booklists Sub-committee, c/o Mathematical Association, 259 London Road, Leicester.

F.R.W.

May 1980

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ADAMS, W.J. THE LIFE AND TIMES OF THE CENTRAL LIMIT THEOREM.
KAEDMON, 1974. H
+ (G408, HISTORICAL, NO PROOFS, PP. 119)

BALL, W.W. A SHORT ACCOUNT OF THE HISTORY OF MATHEMATICS.
DOVER, 1908. 4 H
+ (CLASSIC - BIOGRAPHICAL, LARGE NUMBER OF MATHEMATICIANS)

BECKMANN, P. A HISTORY OF PI.
ST. MARTIN, 1976. H
+

BELL, E.T. MEN OF MATHEMATICS. VOLS I,II.
PENGUIN, 1953. BHUV *
+ (DETAILED BIOGRAPHIES OF MAJOR MATHEMATICIANS)

BELL, E.T. THE DEVELOPMENT OF MATHEMATICS.
MCGRAW-HILL, 1945. 14 BH
+

BELL, E.T. MATHEMATICS, QUEEN AND SERVANT OF SCIENCE.
BELL, 1952. BHLUV O
+

BENDICK, J. AND OTHERS MATHEMATICS ILLUSTRATED DICTIONARY.
KAYE & WARD WITH HICKS, SMITH, 1965 Z BHM
+ (MIS 4,1 DEFINITIONS,EXPLANATIONS,POTTED BIBLIOGRAPHIES; SIMPLE LANGUAGE,GENEROUSLY ILLUSTRATED)

BERGAMINI, D. MATHEMATICS.
TIME-LIFE INTERNATIONAL, 1969. 1+ BHLMUV *
+ (G391, POPULAR HISTORICAL ACCOUNT, PP. 189)

BONOLA, R. NON-EUCLIDEAN GEOMETRY.
DOVER, 1954. 4 CH
+ (THOROUGH, RIGOROUS INTRODUCTION, INCLUDING TRANSLATIONS OF BOLYAI AND LOBACHEVSKI)

BOWMAN, M.E. ROMANCE IN ARITHMETIC.
UNIV. OF LONDON PRESS, 1969. BHJKLMUV O
+ (SIMPLE READABLE ACCOUNT OF HISTORY OF MEASURES)

BOYER, C. CONCEPTS OF THE CALCULUS
DOVER H
+ (HISTORY OF CALCULUS)

BOYER, C. A HISTORY OF MATHEMATICS.
WILEY, 1974. 7 H *
+ (GOOD GENERAL HISTORY)

BUNT, L.N.H.,ET AL. THE HISTORICAL ROOTS OF ELEMENTARY MATHEMATICS.
PRENTICE-HALL, 1976. BHJLU
+ (ARITHMETIC,ALGEBRA,GEOMETRY,NUMBER SYSTEMS DERIVED FROM THEIR SOURCES, PP300)

CAJORI, F. A HISTORY OF ELEMENTARY MATHEMATICS
MACMILLAN, 1917 H
+

CLIFFORD, W.K. THE COMMON SENSE OF THE EXACT SCIENCES.
DOVER. HU O
+ (CLASSIC, POSSIBLY MAINLY OF HISTORICAL INTEREST, BUT STILL CHALLENGING)

COOLIDGE, J.L. A HISTORY OF GEOMETRICAL METHODS.
DOVER, 1963. H O
+ (THOROUGH AND COMPREHENSIVE SURVEY)

DANTZIG ,T NUMBER ,THE LANGUAGE OF SCIENCE
ALLEN AND UNWIN,1962,4TH ED 2+ LUVH *
+ (GXV,FIRST 8 CHS TRACE HISTORY OF NUMBER CONCEPT
FROM FINGERS TO WEIERSTRASS.ACCURATE AND INTERESTING PP320)

DAVID, F. N. GAMES, GODS AND GAMBLING
GRIFFIN, 1969. 3 BHUV
+ (EXAMPLES FROM THE HISTORY OF PROBABILITY AND STATISTICS, PP.275)

DEDRON, P.& ITARD, J. MATHEMATICS AND MATHEMATICIANS.
TRANSWORLD. 3+ H O
+ (G412,MISS,2 TRS.FROM FR,VOLI GENERAL CHRONOLOGY, VOLII SPECIFIC
PROBLEMS IN HISTORY OF MATHS.INCLUDES ORIGINAL MATERIAL,PP323,222)

EVES, H. A SURVEY OF GEOMETRY,I,II.
ALLYN & BACON, 1963. BHUV *
+ (THOROUGH;VOLI SYNTHETIC,VOLII ANALYTIC)

EVES, H. AN INTRODUCTION TO THE HISTORY OF MATHEMATICS.
HOLT SAUNDERS, 4TH EDITION,1979 14 HV *
+ (G418,FULL OF USEFUL PROJECT IDEAS AND INVESTIGATIONS,PP588)

GREENSTREET, W.J. (ED.) ISAAC NEWTON 1642-1727
G. BELL AND SONS 1927 1+ H
+ (MEMORIAL VOLUME, EDITOR FOR MATHEMATICAL ASSOCIATION)

HALLERBERG, A. HISTORICAL TOPICS FOR THE MATHEMATICS CLASSROOM,
(31ST YEAR BOOK)
NCTM, 1969. BEHJLTU
+ (RECOMMENDED, PP524)

HOBSON, E. W. ET AL SQUARING THE CIRCLE AND OTHER MONOGRAPHS.4 VOLS.
CHELSEA, 1958. 7 HUVB
+ (SECT.1 IS HISTORICAL,HIGH-POWERED DISCUSSION OF 'PI', 2 IS RULER AND
COMPASSES(HUDSON), 3 IS NON-DIFFERENTIABLE FUNCTIONS(SINGH), 4 IS LINKAGES
(KEMPE)).

HOGBEN, L. MATHEMATICS IN THE MAKING.
MACDONALD, 1960. BHJKLMUV
+

HOGBEN, L. MATHEMATICS FOR THE MILLION.
ALLEN AND UNWIN 6 BHJLUV
+ (AN OLD FAVOURITE,STILL VALUABLE)

INSTITUTION OF MECHANICAL ENGINEERS. ENGINEERING HERITAGE.
HEINEMANN, 1963 AHB *
+ (FULL OF HISTORICAL AND BIOGRAPHICAL ARTICLES; ENGINEERING IN BROADEST SENSE)

KING, A.C. AND READ, C.B. PATHWAYS TO PROBABILITY
HOLT, RINEHART AND WINSTON, 1963 BHLUV
+ (PP 139)

KLEIN, F. ELEMENTARY MATHEMATICS FROM AN ADVANCED STANDPOINT. VOLS 1,2.
DOVER, 1939. BCEHTU *0
+ (*COMPULSORY READING FOR ANY SERIOUS 6 FORM TEACHER - STILL I* VOL 1 THE BETTER OF THE TWO - THE GEOMETRY IN VOL 2 IS HEAVIER GOING)

KLEIN, F. ET AL. FAMOUS PROBLEMS OF ELEMENTARY GEOMETRY, AND OTHER MONOGRAPHS (4 VOLS IN 1)
CHELSEA. 2 CHLU
+ (SQUARING THE CIRCLE, DOUBLING THE CUBE AND TRISECTING ANGLES (KLEIN OTHER VOLS ARE SHEPPARD - FROM DETERMINANT TO TENSOR, MACMAHON - COMBINATORY ANALYSIS, MORDELL - 3 LECTURES ON FERMAT'S LAST THEOREM. SEPARATE VOLS. ARE OUT OF PRINT).

KLINE, M. MATHEMATICS IN THE MODERN WORLD.
FREEMAN, 1968. ABEHUV *
+ (50 READINGS FROM SCIENTIFIC AMERICAN)

KLINE, M. MATHEMATICAL THOUGHT FROM ANCIENT TO MODERN TIMES.
OUP, 1973. 24 CHLUV R*
+ (G403, MIS 3,4, EXHAUSTIVE, AUTHORITATIVE HISTORY, PP1238)

KLINE, M. MATHEMATICS IN WESTERN CULTURE.
PENGUIN, 1972. 2 BCHLUV *
+ (LAYMAN'S INTRODUCTION)

LEAPFROGS GROUP HISTORY SERIES: CONICS, COMPLEX NUMBERS (2 VOLS)
LEAPFROGS 1,1 LUVH
+ (SERIES ALSO INCLUDES A RESOURCE FILE ON HISTORY OF MATHEMATICS)

LE LIONNAIS, F. GREAT CURRENTS OF MATHEMATICAL THOUGHT.
DOVER/CONSTABLE. BH O
+

MAXWELL, J.C. MATTER AND MOTION.
DOVER, 1876. BH O
+

MENNINGER, K. NUMBER WORDS AND NUMBER SYMBOLS.
MIT. PRESS, CAMBRIDGE, MASS. 1969. BHJLUV
+ (USEFUL BACKGROUND IDEAS)

MIDONICK A TREASURY OF MATHEMATICS.2 VOLS.
PENGUIN, 1968. BHLMUV *O
+ (COLLECTION OF ORIGINAL SOURCES)

MORGAN, B. MEN AND DISCOVERIES IN MATHEMATICS.
MURRAY, 1972. 3 H
+ (MIS 2,3)

MORITZ, R.E. ON MATHEMATICS AND MATHEMATICIANS.
DOVER, 1958. BH O
+

NEUGEBAUER, O. THE EXACT SCIENCES IN ANTIQUITY.
BROWN UNIVERSITY PRESS, 2ND EDN., 1970. BHU *
+

NEWMAN, J.R. THE WORLD OF MATHEMATICS. (4 VOLS.)
ALLEN & UNWIN, 1960. 3, BCEHLUV *
+ (INDISPENSABLE - A CLASSIC; SELECTIONS FROM A WIDE RANGE OF ORIGINAL SOURCES,WITH HISTORICAL COMMENTARY; VOL II OUT OF PRINT)

ORE, O NUMBER THEORY AND ITS HISTORY
MC-GRAW HILL 1948 3+ UVH
+ (GXXXIII,WELL PRODUCED, SOUND ACCOUNT IN BOTH ASPECTS,RICH IN HISTORICAL MATERIAL, RANGING FROM BABYLONIAN PERIOD TO LIFE OF GAUSS,PP370)

PEDOE, D. GEOMETRY AND THE LIBERAL ARTS.
PENGUIN. 3 CHLUV *
+ (G419,CLASSICAL MATERIAL, NICELY PRESENTED PP296)

POPP, W. HISTORY OF MATHEMATICS: TOPICS FOR SCHOOLS.
OPEN UNIVERSITY PRESS/SADLER, 1978. HLUV
+

REID, C. A LONG WAY FROM EUCLID.
ROUTLEDGE AND KEGAN PAUL, 1973 H *O
+ (LAYMAN'S INTRODUCTION TO EUCLID AND HIS INFLUENCE, NONSPECIALIST GUIDE TO MODERN MATHEMATICS)

SANFORD, V. A SHORT HISTORY OF MATHEMATICS.
HARRAP, 1958. BHJLU O
+ (COVERS HISTORICAL FIELD AT ELEMENTARY LEVEL)

SMELTZER D. MAN AND NUMBER.
A. AND C.BLACK H
+ (HISTORY OF NUMBER AND NUMBER SYSTEMS)

SMITH,D.E. NUMBER STORIES OF LONG AGO
GINN, 1948 1+ LMHJK
+ (GXXXII,SHOULD INTEREST CHILDREN OF ALL AGES,PP188)

SMITH, D.E. HISTORY OF MATHEMATICS. 2 VOLS.
DOVER, 1958. 5,5 HUV *
+ (WRITTEN 1928, STILL GOOD.ONE VOL.BIOGRAPHY,OTHER TOPICS;VALUABLE REFERENCE)

SMITH, D.E. A SOURCE BOOK IN MATHEMATICS. 2 VOLS.
DOVER, 1959. H
+

STRUIK, D.J. A CONCISE HISTORY OF MATHEMATICS.
BELL, 1954. 3 CHUV *
+ (G406, PP. 195)

STRUIK, D.J., ED. A SOURCE BOOK IN MATHEMATICS, 1200 - 1800.
HARVARD UNIVERSITY PRESS H
+

TAHTA,D.G. A BOOLEAN ANTHOLOGY
ATM EHB
+ (A COLLECTION OF THE WRITINGS OF MARY BOOLE)

TOEPLITZ, OTTO THE CALCULUS, A GENETIC APPROACH.
U. OF CHICAGO PRESS, 1963. CHUV
+ (PRESENTS THE IDEAS OF THE CALCULUS AS THEY DEVELOPED)

TURNBULL, H.W. THE GREAT MATHEMATICIANS.
METHUEN, 1962. BHJLU 0
+

VAN DER WAERDEN, B.L. SCIENCE AWAKENING.
NOORDHOFF, GRONINGEN, 1954. BH
+ (HISTORY OF MATHS UP TO AND INCLUDING GREEKS)

WHANSLON, H.W. THE STORY BOOK OF MONEY
WELLS, GARDNER, DARTON & CO., 1948 JKLMH
+

WILDER, RAYMOND L. EVOLUTION OF MATHEMATICAL CONCEPTS; AN ELEMENTARY STUDY.
WILEY, 1968. BEMUV 0
+ (INFLUENCE OF CULTURAL FACTORS ON DEVELOPMENT OF MATHEMATICS)

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